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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/080,564	02/25/2002	Tetsu Takahashi	1614.1218	8623	
21171 STAAS & HA	7590 01/04/2007 LSEY LLP	EXAMINER			
SUITE 700		HASAN, SYED Y			
WASHINGTO	ORK AVENUE, N.W. N. DC 20005		ART UNIT	PAPER NUMBER	
			2621		
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SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MO	NTHS	01/04/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

<del></del>		Applicat	ion No	Applicant(s)	-			
Office Action Summary		10/080,5			TAKAHASHI, TETSU			
		Examine		Art Unit	<u> </u>			
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Period fo	The MAILING DATE of this communi				ddress			
A SHO WHIC - Exten after - If NO - Failur Any r	ORTENED STATUTORY PERIOD FOR HEVER IS LONGER, FROM THE MANAGER IS LONGER IS LONGER IN THE MANAGER IN THE MANAGER IS LONGER IN THE MANAGER IN THE MA	AILING DATE OF T of 37 CFR 1.136(a). In no e unication. lutory period will apply and will, by statute, cause the ap	HIS COMMUNICATION vent, however, may a reply be will expire SIX (6) MONTHS from plication to become ABANDO	ON. timety filed om the mailing date of this o NED (35 U.S.C. § 133).				
Status								
1)⊠	Responsive to communication(s) filed	d on 25 February 2	002.					
• —	•	b) This action is						
<i>,</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
	closed in accordance with the practic	e under Ex parte Q	uayle, 1933 C.D. 11,	433 O.G. 213.				
Dispositi	on of Claims							
4)🖂	4) Claim(s) 1 - 22 is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)□	5) Claim(s) _ is/are allowed.							
6)⊠	⊠ Claim(s) <u>1 - 4, 8 - 15 and 19 - 22</u> is/are rejected.							
•	Claim(s) <u>5 - 7, 16 - 18</u> is/are objected							
8) Claim(s) are subject to restriction and/or election requirement.								
Applicati	on Papers		·		•			
9)🛛 .	The specification is objected to by the	Examiner.						
10)⊠ The drawing(s) filed on <u>25 February 2002</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	ınder 35 U.S.C. § 119							
12) △ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) △ All b) ☐ Some * c) ☐ None of:  1. △ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.								
•								
Attachmen	t(s)							
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)								
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)			Paper No(s)/Mail	Date				
	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date <u>02/25/2002 S.Y.H.</u> .		5)	ii Patent Application				

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#### **DETAILED ACTION**

### Specification

1. The disclosure is objected to because of the following informalities:

- (1) On page 5, line 17, change "output terminal 31" to "output terminal 32" as shown in figure 1.
- (2) On page 5, line 31, change "NTSC decoder 15" to "NTSC decoder 12" as shown in figure 1.
- (3) On page 14, line 1, change "SRAM 126" to "SDRAM 126" and change "output terminal 130" to "input terminal 130" as shown in figure 5.
- (4) On page 14, line 3, there is a mention of "a remote controller input part 131" as shown in figure 5. Also shown in figure 5 is composite video amp output "131". One of these numbers has to be changed.
- (5) On page 14, line 13, change "stream output interface 125h" to "stream output interface 125k" as shown in figure 5.
- (6) On page 14, line 13, mention is made to "a remote controller, not shown in the figure" whereas in line 3 reference is made to "a remote controller input part 131" as shown in figure 5.
- (7) On page 15, line 18, reference is made to "output terminal 131" which conflicts with "a remote controller part 131" mentioned in para 0067 above.

Appropriate correction is required.

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### **Drawings**

2. The drawings are objected to because figure 5 references to a remote controller "131" and a composite video amp output "131". One of these numbers need to be changed.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

# Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1 – 4, 8 - 9, 12 – 15 and 19 - 20 are rejected under 35 U.S.C. 102(e) as being anticipated by Hatanaka et al (US 6397000)

Regarding claims 1 and 12, Hatanaka et al discloses, an image recording apparatus comprising:

a coding (fig 1, 10, col 2, line 39, MPEG Decoder)/decoding (fig 1, 11, col 2, line

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40, NTSC Encoder) part performing coding and decoding a given signal in one of a plurality of coding/decoding modes of different bit rates (fig 9, col 8, lines 37 – 44, SP, EP and LP modes)

a recording medium (fig 1, 2, col 2, lines 34 – 35, a recording/playback device) coupled with said coding/decoding part (fig 1, 10 and 11 from above); and

a control part (fig 1, 18, col 2, lines 43 – 44, a packet control circuit) setting a predetermined bit rate (fig 9, col 8, lines 37 – 44, SP, EP and LP modes) to be applied by said coding/decoding part in case the given signal is output after being coded and decoded by said coding/decoding part without storage (col 7, lines 21 – 24, illustrating that this embodiment provides a coding/decoding part without storage) thereof in said recording medium.

Regarding claims 2 and 13, Hatanaka et al discloses the image recording apparatus, wherein the predetermined bit rate is that on such a mode of the plurality of coding/decoding modes as to provide the highest image quality (fig 9, col 8, line 40 – 41, triple mode(EP mode))

Regarding claims 3 and 14, Hatanaka et al discloses the image recording apparatus, wherein the predetermined bit rate is further higher than that on such a mode of the plurality of coding/decoding modes as to provide the highest image quality (fig 9, col 8, line 40 –41, triple mode(EP mode))

Regarding claims 4 and 15, Hatanaka et al discloses an image recording apparatus comprising:

a coding/decoding part performing coding and decoding a given signal in one of

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a plurality of coding/decoding modes of different bit rates (rejected based on claim 1 above)

a recording medium coupled with said coding/decoding part (rejected based on claim 1 above) and

a control part automatically setting a predetermined bit rate to be applied by said coding/decoding part according to a predetermined parameter concerning recording of the given signal to be recorded into said recording medium (fig 9, col 8, lines 44 – 51, system automatically detects the setting)

Regarding claims 8 and 19, Hatanaka et al discloses an image recording apparatus comprising:

a coding/decoding part performing coding and decoding a given signal in one of a plurality of coding/decoding modes of different bit rates (rejected based on claim 1 above)

a recording medium coupled with said coding/decoding part (rejected based on claim 1 above); and

a control part causing an input image signal to be automatically recorded into said recording medium even if no instructions for recording the input image signal is given (fig 9, col 8, lines 52 – 58, system automatically records without instructions) and causing the image signal thus recorded into the recording medium to be accessible when predetermined instructions concerning the image signal is given. (fig 9, col 8, lines 59 – 67, image signal is accessible when instructions are provided)

Regarding claims 9 and 20, Hatanaka et al discloses the image recording

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apparatus, wherein said control part does not perform the automatic recording of the image signal when the remaining storage capacity of the recording medium is less than a predetermined value (fig 9, col 8, lines 52 – 58, automatic recording of digital signal is prohibited)

### Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 10 11 and 21 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hatanaka et al (US 6397000) and further in view of Yoshida et al (US 2003/0120942).

Regarding claims 10 and 21, Hatanaka et al teaches all of the above except the image recording apparatus, wherein said control part causes the image signal to be automatically recorded into a file, which a user cannot access, of the recording medium

However, Yoshida et al teaches the image recording apparatus, wherein said control part causes the image signal to be automatically recorded into a file (page 36, 0837, automatically starts the recording operation) which a user cannot access, (page 19, para 0485, the system FAT 42 is a system region that the user cannot access and is a region such as for file management information where the control means 14 utilizes in order to control the system) of the recording medium

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It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate control part of the image recording apparatus causing the image signal to be automatically recorded into a file which a user cannot access, of the recording medium as taught by Yoshida et al in the system of Hatanaka et al in order to cut back user intervention to record automatically and prevent unauthorized copying by preventing user access to restricted files.

Regarding claims 11 and 22, Hatanaka et al teaches all of the above except the image recording apparatus, wherein control information concerning the image signal is divided and recorded into the recording medium in a directory area thereof and also an area thereof in which the image signal is stored separately

However, Yoshida et al teaches the image recording apparatus as claimed in claim 8, wherein control information concerning the image signal is divided and recorded into the recording medium in a directory area thereof and also an area thereof in which the image signal is stored separately (page 20, para 0493, whenever the recording of the AV data in a new recording unit is completed, the control means 14 produces or updates the file management information that indicates in which recording unit the AV data is recorded. Then, this file management information is stored in its own memory)

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the image recording apparatus as claimed in claim 8, wherein control information concerning the image signal is divided and recorded into the recording medium in a directory area thereof and also an area thereof in which the

image signal is stored separately as taught by Yoshida et al in the system of Hatanaka et al in order to provide improved control of the file in case accidental erase of data occurs. In this case the control file is still accessible to reproduce data.

### Allowable Subject Matter

7. Claims 5 – 7 and 16 – 18 are objected as being dependent on a rejected base claim, but would allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims and amended to overcome the rejection(s) under 35 U.S.C. 102 set forth in this Office action.

Regarding claims 5 and 16, the prior art of record fails to teach, disclose or fairly suggest as recited in claim 5, the prior art fails to disclose the image recording apparatus, wherein:

the predetermined parameter includes a remaining storage capacity A (bytes) of said recording medium;

a time T (seconds) of recording reserved;

a maximum available recording bit rate Rmax (bps); and

a minimum available recording bit rate Rmin (bps); and

said control part determines the bit rate R (bps) by which the recording is performed such as that satisfying the following formula:T.times.R/8.ltoreq.Awherein, R=Rmax when R>Rmax; and R=Rmin when R<Rmin.

Regarding claims 6 and 17, the prior art of record fails to teach, disclose or fairly

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suggest as recited in claim 6, the prior art fails to disclose the image recording apparatus, wherein:

the predetermined parameter includes a remaining storage capacity A (bytes) of said recording medium; and

said control part lowers the bit rate by which the recording is performed when the remaining storage capacity A is less than a predetermined value.

Regarding claims 7 and 18, the prior art of record fails to teach, disclose or fairly suggest as recited in claim 7, the prior art fails to disclose the image recording apparatus, wherein:

the predetermined parameter includes a remaining storage capacity A (bytes) of said recording medium;

a time T (seconds) of recording reserved; and

a minimum available recording bit rate Rmin (bps); and

said control part determines the bit rate R (bps) by which the recording is performed such as that satisfying the following formula: T. times. R/8. Itoreq. Awherein R=Rmin when R&It; Rmin.

#### Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure

Shimoda et al (US 5289190) discloses a recording/reproducing apparatus including control signal indicating high-efficiency coding.

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Maturi (US 5694332) discloses a MPEG audio decoding system with subframe input buffering.

Ikeda (US 6240244) discloses a disk apparatus having a single recording head and capable of simultaneous recording and reproducing.

Morioka et al (US 6226443) discloses a recording and reproducing apparatus.

Mitsuno (US 6219311) discloses a disc recording method and device, and disc like recording medium.

Cheung et al (US 6538656) discloses a video and graphics system with a data transport processor.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Syed Y. Hasan whose telephone number is 571-270-1082. The examiner can normally be reached on 9/8/5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Tran can be reached on 571-272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO

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Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

S.Y.H. 12/14/2006

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